

INTERNATIONAL SEARCH REPORT

International Application No
PCT/ 3/04543

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A63B53/04 A63B53/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A63B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	WO 03/020372 A (LINDSAY NORMAN MATHESON) 13 March 2003 (2003-03-13) the whole document	1-4, 8-20
X	US 5 303 923 A (GARCIA LARRY) 19 April 1994 (1994-04-19) column 1, line 60 - column 2, line 22; figures	1-4, 18-20
X	WO 99/24124 A (TEARDROP GOLF COMPANY ; ZERA VICA JOHN (US); REED TIMOTHY R (US); SL) 20 May 1999 (1999-05-20) page 5, paragraph 2 - page 6, paragraph 4; figures	1
X	US 1 525 137 A (LAWTON CHARLES L) 3 February 1925 (1925-02-03) the whole document	1

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

- *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the International search

9 February 2004

Date of mailing of the International search report

27/02/2004

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 095 931 A (HALL J NEIL ET AL) 1 August 2000 (2000-08-01) -----	
A	GB 2 213 390 A (CANMORE GOLF MANUFACTURING. COM) 16 August 1989 (1989-08-16) -----	

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 5-7 (not searched), 8-20 (searched partially)
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 5-7 (not searched), 8-20 (searched partially)

Present claims 5-7 relate to a putter head defined (inter alia) by reference to the following parameters:

$S = SG + SL$

$SG = (250Xh) / (3.2 + 70XM) \times (K^2/P) + P!$

$SL = (-0.76xai) / (1 + 0.04x(P/K)^2)$

S, SG and SL are defined in claim 1, but they do not actually limit the subject-matter of claim 1 because no values are given for them in claim 1. Claims 5-7, however, introduce some limiting values for S and could not be searched. Claims 8-20 have been searched only in combination with claims 1-4, they have not been searched as dependent from claims 5-7.

The use of these parameters in the present context is considered to lead to a lack of clarity within the meaning of Article 6 PCT. It is impossible to compare the parameters the applicant has chosen to employ with what is set out in the prior art. The lack of clarity is such as to render a meaningful complete search impossible. Consequently, the search has been restricted to: claims 1-4 and 8-20 (partially).

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

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Information on patent family members

International application No

PCT/03/04543

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03020372	A	13-03-2003	WO 03020372 A2	13-03-2003
			GB 2381204 A ,B	30-04-2003
			GB 2387787 A	29-10-2003
			US 2003199332 A1	23-10-2003
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			CN 1247478 T	15-03-2000
			EP 0954355 A1	10-11-1999
			JP 2000510382 T	15-08-2000
			TW 483771 B	21-04-2002
			WO 9924124 A1	20-05-1999
			US 2002128090 A1	12-09-2002
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			CA 2355899 A1	06-07-2000
			CN 1332650 T	23-01-2002
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			EP 1140293 A1	10-10-2001
			GB 2358806 A ,B	08-08-2001
			JP 2002533180 T	08-10-2002
			NZ 513145 A	25-10-2002
			WO 0038797 A1	06-07-2000
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